

THE TECH

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BOSTON, MASS., FRIDAY, APRIL 30, 1909

PRICE THREE CENTS

MINING COURSE IS STRONG AND BROAD

Graduates Become Chemical-Mechanical-Electrical Engineers

SUMMER SCHOOL GOOD

Thesis Compels Student To Use Own Resources—Many Begin In Assay Offices

Probably in no branch of engineering work are the demands so great and varied as those in mining engineering. Above everything else a mining engineer must be pre-eminently a broad-gauge man, both in knowledge and mind. He must be broad in knowledge because of the many difficult problems he has to solve in which are required thorough understanding and working knowledge of civil, mechanical, and electrical engineering, combined with his own expert training in mining and metallurgy. He must be broad in mind to meet the emergencies which he and his men encounter, and also to keep his men in good health and temper. It is absolutely essential that, before entering on his professional work in mining engineering, a man must be thoroughly trained in mathematics, physics, chemistry, surveying, mechanics, electricity, mineralogy, geology, assaying, metallurgy and mining. He must master several branches of engineering sufficiently to apply them to his own special field.

The mining course at Tech is a broad one covering all of the above subjects. A student on the completion of the course can become useful in mining or metallurgical industries, and in fact in many other engineering lines. This latter point is well proven by the number of graduates of the mining department who have risen to high rank in mechanical, electrical and chemical lines.

Aide from the regular work required in the mining course, two other agents broaden the student and teach him how to work out a chemical operation to a successful end. These are the summer schools and the theses. In the summer schools the student has a chance to visit mining camps and smelters in this country and Canada, thereby familiarizing himself in a practical way with his previous studies. His thesis at the end of the course compels him to use the knowledge and engineering skill acquired during his four years' study, and gives him practice in operating the different machines and furnaces such as crushers, rolls, trommels, jigs, classifiers, slime tables, Wilfley tables, blast furnaces and reverberatory furnaces which he will use later in his career. It teaches him to use his own resources to work out some particular commercial operation connected with mining, ore dressing, or metallurgy.

The kind of work which the student does on entering his career depends partly on his desires, and partly on the particular locality where he happens to be placed. Many students begin by getting positions in assay offices connected with mines or smelters. Some begin by surveying. Others prefer to begin by working in the mine with pick and shovel, thereby obtaining an intimate knowledge of all details connected with drilling, timbering, ventilating, hoisting, and dressing of ore taken from the mine. Being one of the laborers for a time, he understands them and sees things from their standpoint, thereby learning how to command men in the future.

If the student happens to begin his professional life in the metallurgical branch he starts out either in the chemical laboratory or as a helper in some of the various departments of a steel mill. Owing to the broad school training he has had he adapts himself to his particular work and uses it as a tool. As he gains experience he is wanted for better things. Surveying and assaying are really launching sub-

(Continued on page 2.)

INTERCLASS MEET 2.30 TOMORROW

Alumni Donate Three Cups To Become Property Of Winners

JUNIORS SHOULD WIN

Relay Team Entered in Quarter 157 Entries Are Received Events Crowded

With already a good safe margin of points won in the winter meet, the juniors are expected to clinch enough points in the meet tomorrow to win the championship for the year. Such being the case, they will be entitled to place their numerals on the new cup which has been presented by Major F. H. Briggs 1881, chairman of the athletic advisory council. The freshmen who took second place in the winter meet with 20 1-2 points are expected to take



W. C. Salisbury 1911

second place. The seniors have 17 1-2 points and the sophomores 17.

The gift of three other cups by prominent alumni will stimulate competition. These cups are presented for the winners of the 120-yard high hurdles, the mile run and quarter mile. The hurdle's cup has been donated by Benjamin Hurd 1896, who made records in these events while at the Institute. The mile cup is the gift of T. L. Batchelder 1890, a prominent long distance man. The quarter mile cup comes from Dr. J. A. Rockwell 1896, whose Institute record of 51 1-5 seconds in this event still stands.

In the 200-yard dash, C. W. Gram 1909, and Salisbury 1911, look good, but they will be pushed close by such men as J. S. Grant 1912, and S. Reed 1912. Gram 1909, should win in the 220-yard dash, closely followed by Salisbury 1911, White 1911, and Oettinger 1912. In the

(Continued on page 3.)

GUNCKEL SPEAKS AT CONVOCATION

Toledo Man President of Newsboy's Association Of America

OBJECTS TO CIGARETTE

Tells of Work Among Street Boys Many Are Saved From The Penitentiary

President Noyes introduced Mr. John Gunckel of Toledo, President of the Newsboys' Association of America, as the speaker of the convocation Wednesday noon.

Mr. Gunckel from the moment he began had the whole audience with him. He began by saying that he was a varied and bashful man, little used to speaking, and with no respect for commas, semicolons, or other matters pertaining to correct English. All through his life, he said, he had been accustomed never to do things for himself, if by any possible means he could get some one else to do them for him. He considered that he had accomplished something worth while if he could get some brother to carry up the wood in his place, or if he could persuade some other boy to dig the bait while he fished. He also told of a former teacher who weighed somewhere in the vicinity of two of three hundred pounds who, as an extreme punishment for unruly conduct, would take the boys up on the platform and sit on them.

This same teacher, he said, was still living, and had been been watching his career each year in detail. The teacher never complimented him on his wealth or on his high position, but rather on the successful efforts he made for the betterment of the conditions of neglected children. Of this he was justly proud, for he claimed that the greater part of the material for our peni-

(Continued on page 3.)

DR. WOOD SPEAKS

Before the Biological Society last evening, at the Technology Club, Dr. Frederick Wood 1895, gave an interesting lecture on "Biometrical Methods and the Interpretation of History." The lecturer was particularly interesting because of the close association which he has had in connection with the subject.

The principal speaker of the evening, Dr. Woods, was preceded by Prof. Sedgwick, who gave an interesting account of his trip in the west, through the different colleges and universities of Illinois and Wisconsin.

The bacteriologists and their friends spent the remainder of the evening in the enjoyment of a short entertainment and in the participation in the enjoyments of a "good feed."

The officers of the club elected for the coming year are: President, E. C. Howe 1909; secretary, H. O. Jenkins 1909; treasurer, P. K. Brown 1910.

TECH SHOW DINNER

Tomorrow evening at the Union, the "Oh-Be-Joyful" crowd gather once more, or in other words, the Show men will make their final appearance before the public at the "Show Dinner."

The toastmaster of the evening will be General Manager Joslin and those who will attempt to enliven the occasion will be: Bursar, F. A. Rand, Prof. Dugal, C. Jackson, L. M. Emerson of the Show Advisory Committee, R. H. Allen 1909, C. Belden 1909, S. A. Malcom 1909, J. I. Finnie 1909, Carl Sittinger 1910, and Dudley Clapp 1910.

Besides the dinner different show stunts will be given, and all Show men are invited to be present. Those not having received invitations as yet are requested to see D. Clapp before Saturday.

F. S. GREEN SPEAKS ON WATERPROOFING

Hydrolithic Cement Better Than Tar and Felt Protection

PROGRAM COMMITTEE

Picked at the Meeting Thursday Elections Postponed—Plans For Banquet

If the statement of Mr. F. S. Green of the Hydrolithic Waterproof Cement Co., is to be believed, the day of pitch and felt waterproofing is about over, at least as far as deep basements and tunnels are concerned, where the hydrostatic head is large and liability of fracture is great.

Mr. Green compared the old method with the new one of his company. With tar and felt the waterproofing must be done on the outside, for it needs a great backing to resist the water head while the hydraulic waterproofing cement can be applied on the inside where it merely forms a 5-8 inch coat on the wall, leaving all possible fractures open to repair.

Another advantage of the new waterproofing material is that it is resistant to acids. Thus for instance in the New York Subway Power House, water seeped through the walls containing 7 per cent. sulphuric acid completely destroying the tar-felt waterproofing. Since hydraulic waterproof cement was applied no leaks have been found.

Mr. Green gave numerous examples of similar nature well illustrated by lantern slides, showing the "before and after treatment" conditions of many deep basements in New York skyscraper buildings and several of the River tunnel where the waterproof cement has had to be applied after the failure of tar and felt.

There are many kinds of hydraulic cement for sale, but few perfect. This particular kind is not for sale, however, and is only used on the company's contracts. In cost it is many times higher per square foot than tar and felt, but when the economy in space and the easiness with which leaks can be discovered is considered the two methods balance well in economy in most cases where absolute waterproofing is necessary.

At the annual meeting Thursday, the following program committee for next year was elected: J. B. Babcock 1910, W. C. Arkell 1910, H. N. Cummings 1910, C. J. Lovejoy 1910, P. Fleming 1911 and H. L. Manley 1911. Owing to the small number present, the election of the regular officers was postponed until May 14.

At the annual banquet May 6th, Prof. C. M. Spofford and T. E. Byrnes, Vice-president of the New York, New Haven and Hartford R. R., will be the chief speakers. Most of the professors of the department expect to be present and a great time is expected.

The next meeting comes May 14, when Professor Swain will talk on the failure of the Quebec Bridge.

CALENDAR

FRIDAY, APRIL 30.

4:00 P. M.—Wireless Club meeting—Union.
4:4 P. M.—Tech Board meeting—30C.
8:00 P. M.—Union Night. Dist. Attorney Hill at the Union.

SATURDAY, MAY 1.

12:00 M.—Senior Portfolio meeting—Union.
3:00 P. M.—1912 vs. Nat'k High.
2:30 P. M.—Spring Meet at Field.
3:00 P. M.—1911 vs. Brewster Academy.
6:30 P. M.—Show Dinner at Union.

MONDAY, MAY 3.

4:30 P. M.—Class Day Committee—Union.

THE TECH

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Friday, April 30, 1909

If you do not believe in woman suffrage, sign your schoolmate's name to the suffrage petition, between those of your favorite actress and your favorite professor.

If you do believe in woman suffrage, sign the names of such of your enemies as will not easily identify your acts, and of anyone else who is much laughed at, to the list opposed to your cause.

In any event, don't sign your own name.

Such is the process of purification, through wit and logic, of a great modern political issue. You can't kill a good thing by laughing at it.

Take a Brookline Village car and get off at Pond Ave. This is the way to Tech Field. You are going out tomorrow afternoon to see the inter-class championship track meet. You will have a fine time, and it will cost only 25 cents. Take a friend with you.

Carpenters of the Institute are building a sound-proof wall between the Tech office and the adjoining room in Engineering C. Which goes to show that the "echoes from the Union," as quoted in Technique, are unwelcome in certain quarters.

CONFIRMS ELECTIONS

1912 Agrees to Committee Choice And Discusses Auditing

A meeting of the class of 1912 was called by President H. D. Kemp yesterday at one o'clock in Huntington Hall. The following elections by the executive committee were submitted to the class and confirmed: J. C. Duyser, manager of tug-of-war team; M. C. Cherry, manager of baseball team; J. E. Whittlsey, manager of football team; and C. H. Albee, manager of basket ball team. The resignation of M. C. Cherry as baseball manager was presented and accepted. J. I. Murray, F. W. Barker, and A. Eicher were nominated to fill the vacancy. Eicher declined the nomination, and Murray was elected.

The question of oversight of class elections by the Institute Committee and of a proposed auditing committee, were discussed, but left upon the table until the next meeting.

TWO GAMES TOMORROW

1911 Takes Long Trip to Wolfboro N.H.—1912 Plays Natick High

Both Technology class baseball teams have good games scheduled for tomorrow afternoon. The sophomores will take the longest trip ever taken by a Tech nine, when they go to Wolfboro, N. H., to play the crack Brewster Academy team. Little is known of the Granite State boys, but the Tech men have improved greatly since the season opened, and a fast time will be handed the New Hampshire neighbors.

The freshmen are up against Natick High School on their grounds. The school boys are playing ball and should give the visitors all they want to take care of.

The probable lineups of the Institute teams will be:

1912—McAvoy 2b, Eicher ss, Cherry 1b, Foster 3b, Allen rf or p, McGuire cf, Sloan p or rf, Taylor c, Coulson lf, Whipple rf.

1911—Pearson p or cf, Harrington lf, Williams c, Odell 1b, Hufsmith 2b, O'Neil 3b, Parker p or ss, McLaughlin ss, Metcalf cf, Stevens rf.

UNION NIGHT TONIGHT

District Attorney Hill to Speak to Students at Union

Tonight at the Union the next to last of the Friday night entertainments will take place. The committee in charge has been exceedingly fortunate in securing the services of District Attorney Hill of Essex county. He will speak on "The Young Man in Public Office."

District Attorney Hill is one of the most promising lawyers of the Mass.

achusetts bar. Quite recently, at the death of John B. Moran, he was appointed by Governor Draper to the office of district attorney. His talk should prove most interesting. A large attendance is expected.

The committee in charge of the entertainments at the Union announces that the final entertainment will be a grand smoker. The date will be announced later.

MINING COURSE

(Continued from page 1.)

jects. Work well done is the best recommendation for more work. The first five or ten years are spent getting experience and learning how to make one's self wanted and necessary to the employer. After this, experience tells, and positions of trust and preferment follow.

Men naturally desire leading positions. The quality of leadership depends on ability to judge qualifications of other men, ability to make use of other men, to keep subordinates happy when not advancing them faster than the industry permits, the having of a definite policy, and being able at the end of each year to satisfy directors, stockholders, and the public. A man cannot rise to a high position in the mining industry without these qualities. These qualities cannot be obtained except a man has the wide training mentioned previously. That the mining course as given by the Institute fulfills these requirements is attested by the large number of its graduates who are now Superintendents, Managers, and Presidents of some of the most important mining and metallurgical companies.

The qualifications for the N. R. A. button will be held at the Wakefield Range on Saturday, May 1st. Train leaves North Station at 2:15 P. M.

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INTERCLASS MEET

(Continued from page 1.)

quarter mile, all the members of the last relay team are expected to enter, and there should be an exciting fight for the cup.

P. D. White 1911, is the choice in the half mile. With C. P. Eldred 1911, and a field of cross country men, the competition should be keen. Such men as H. H. Howland 1909, J. F. McCarthy 1909, C. P. Eldred 1911, H. G. Watkins 1912, K. Cartwright 1912, and E. Jacobs 1910, are entered.

In the two mile, Howland 1909, and McCarthy 1909, are expected to show the way to finish, followed closely by S. Stephenson 1909.

The hurdles are strong for 1910. Mason, W. J. Pead, Jr. and G. B. Cummings are the favorites. The high jump will be a close contest between Dalrymple 1912, E. Stuart 1910, and R. H. Allen 1909. The broad jump will also be a sharp contest with W. J. Pead, Jr. 1910, H. S. Gott 1910 and J. Becker, Jr. 1912, the favorites. In the pole vault, W. D. Allen 1911, will have a walk over with W. C. Salisbury 1911, second.

In the weight events, L. D. Nesbit 1909, is strong for the discus throw, L. G. Metcalf 1911, for the hammer throw and Gott 1910, for the shot put. Becker 1912, and Bray 1912, should figure somewhere in these results.

The prizes will be: First place, a silver medal; second place, a bronze medal; third place, a suitable badge. No entrance fee will be charged and every man's points counts for the class in which he takes the most studies.

The entries to date are as follows:

100-yard dash—W. C. Salisbury 1911, J. Becker, Jr. 1912, L. B. Walker 1912, P. D. White 1911, G. B. Cummings 1910, P. L. Dillon 1910, K. D. Fernstrom 1910, H. Lockett 1910, S. Reed 1912, C. W.

Gram 1909, M. A. Oettinger 1912, J. S. Grant 1912, W. J. Seligman 1911.

220-yard dash—W. C. Salisbury 1911, R. H. Gould 1911, K. D. Fernstrom 1910, H. Lockett 1910, S. Reed 1912, C. W. Gram 1910, M. A. Oettinger 1912, W. J. Seligman 1911, J. D. White 1911, S. Bogdasarian 1911, G. B. Cummings 1910, 440-yard dash—W. C. Salisbury 1911, H. H. Means 1912, S. Reed 1912, C. W. Gram 1909, M. A. Oettinger 1912, J. I. Murray 1912, P. D. White 1911.

880-yard dash—W. S. Davis 1910, C. P. Eldred 1911, J. I. Taylor 1912, H. Lockett 1910, H. Thompson 1912, H. H. Means 1912, R. H. Allen 1909, J. I. Murray 1912, J. F. Morrison 1911, P. D. White 1911, C. L. Campbell 1909, and L. C. Cooley 1911.

One mile run—W. S. Davis 1910, C. P. Eldred 1911, H. J. Watkins 1912, K. Cartwright 1912, C. H. Morrill 1912, E. Jacobs 1910, F. H. Busby 1912, A. H. Means 1912, P. D. White 1911, C. L. Campbell 1909, L. C. Cooley 1911, W. T. MacCreddie 1911, J. F. McCarthy 1909, H. H. Howland 1909.

Two mile run—R. I. Hulsizer 1910, W. S. Davis 1910, C. P. Eldred 1911, H. G. Watkins 1912, C. H. Morrill 1912, K. Cartwright 1912, J. N. Stephenson 1909, H. D. Billings 1910, R. H. Ranger 1911, E. Jacobs 1910, W. C. West 1911, R. D. Van Alstine 1911, J. D. MacKenzie 1911, S. Bogdasarian 1911, H. H. Howland 1909, J. F. McCarthy 1909.

120-yard hurdles—W. J. Pead, Jr. 1910, R. H. Allen 1909, G. B. Cummings 1910, J. I. Murray 1912.

220-yard hurdles—W. J. Pead, Jr. 1910, R. H. Gould 1911, G. B. Cummings 1910, K. D. Fernstrom 1910, J. S. Grant 1912, H. G. Thompson 1912.

High jump—W. C. Salisbury 1911, J. Becker, Jr. 1912, E. Stuart 1910, P. W. Dalrymple 1912, R. H. Allen 1909, H. M. Davis 1911.

Broad jump—J. Becker, Jr. 1912, J. L. Bray 1912, H. S. Gott 1910, W. J. Pead 1911, R. H. Gould 1911, K. D. Fernstrom 1910, J. H. Ruckman 1910, H. Greenleaf 1912, J. I. Murray 1912, S. B. Walker 1912, R. C. Jacobs 1910, C. L. Campbell 1909.

Pole vault—W. C. Salisbury 1911, W. D. Allen 1911, H. S. Gott 1910, E. Mangen 1912, H. Greenleaf 1912.

Shot put—J. Becker, Jr. 1912, J. L. Bray 1912, H. S. Gott 1910, L. G. Metcalf 1911, L. D. Nesbit 1909, D. F. Bendow 1912, R. H. Allen 1909, D. V. Williamson 1910.

Hammer throw—L. G. Metcalf 1911, J. L. Bray 1912, L. D. Nesbit 1909, P. D. White 1911, R. M. Ruby 1912.

Discus throw—J. L. Bray 1912, L. G. Metcalf 1911, E. Stuart 1910, L. D. Nesbit 1909, D. V. Williamson 1910.

GUNCKEL SPEAKS

(Continued from page 1.)

tentaries and prisons comes from cases of utterly neglected childhood.

When he first started his work on behalf of the Toledo street urchins Mr. Gunckel said that he gathered 102 of them off the street, and gave them a big Christmas dinner. This dinner was well policed, but notwithstanding this fact there were five fights, and it took but 11 minutes to clean the tables. One boy he found who tore a piece of his sleeve with which he tied up his trouser's leg at the bottom, thus forming a receptacle for apples, doughnuts, pie, and all manner of edibles.

"If you want to make a success in the world, get in touch with everyone." This, Mr. Gunckel insists, is the only way to make men respect you. He claims to be in personal touch with some ten thousand boys all over the world. All of these he has either seen personally, or corresponds with.

Mr. Gunckel closed with an appeal to all men to stop cigarette smoking, which he claims is the cause of many life failures and divorce cases.

"I don't care what a man's creed or religion is. If he does not approve of lying, swearing, stealing, gambling, cigarettes, or drinking intoxicating liquors, he is a man fit for heaven."

TRACK ANNOUNCEMENT

There will be a handicap track meet at the Field next week Saturday. All men who run in the meet tomorrow will be expected to enter. Everyone who has never raced and wants to see what he can do is expected to enter.

This move has been taken by Coach Kanaly to make up for lack of practice which results from having no dual

(Continued on page 4.)

TECH BOYS

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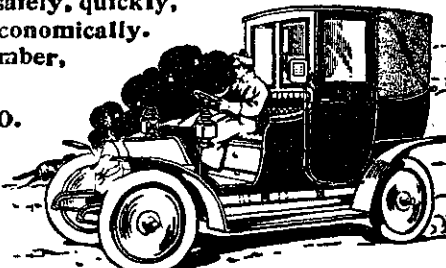
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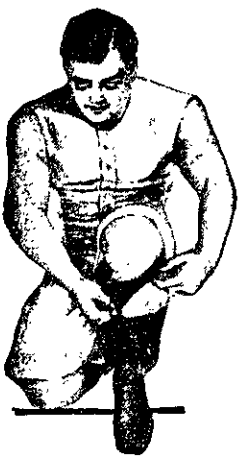
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Story



A Good and Trustworthy Garter exerts a positive psychological influence. It Uplifts. It promotes poise and prompts Progress. It minimizes embarrassments. It works for mental peace. Men who are perpetually charged with a care for careless hose-supporter, cannot hope to concentrate on Great Deeds. Be Wise—

Don't permit the tyranny of the trivial!

PARIS GARTER

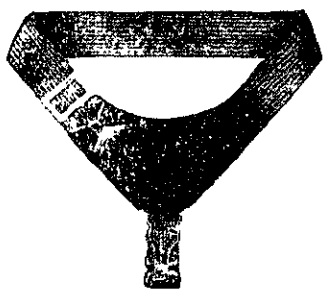
fit the leg and introduce a radiating feeling of safety and security. Built by twentieth Century Man, for twentieth Century Men, they are complete and comforting. No metal chafes the flesh; no leather absorbs and holds perspiration. Every pair sold with Moneyback Guarantee. You must be satisfied, or you can't wear Paris Garters. If you can't find Paris Garters at your Haberdasher's forward twenty-five cents for the simple kind or fifty cents for an ethereal, Immortal-like effect in silk.

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SPECIAL NOTICE

We wish all students to know that the clothing which we furnish, made in our workshops on the premises, is always the best that can be produced and will be found up to date in style, fabric and fit. We already have the patronage of many "Tech" students; we wish to see more in our store and extend an invitation to all to visit us, examine our merchandise, and step into the elevator and go through the workshops and see the clothing in process of manufacture.

Macular Parker Co.

400 WASHINGTON ST.

UNION STAMP WORKS

MANUFACTURERS OF
RUBBER STAMPS

175 Washington St., Boston, Mass.

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TRACK ANNOUNCEMENT

(Continued from page 3.) meets to give the men actual competition. A spring handicap meet is a new wrinkle, and from present indications will be very successful. Tech will not be in the reckoning at all in intercollegiate unless more men get out on the track, and keep working regularly. All entries must be in by Thursday night, so that Coach Kanaly can make up the handicaps. Everyone has an equal chance.

NOTICES

NOTICE—Saturday, May 1, Show Dinner at the Union.

1912.—Baseball men meet at Union Saturday at 1:45 to take 2:04 train for Natick.

Meeting of the Rifle Club in 33 Rogers at 1:00 P. M. Friday, April 30th. A30

Y. M. C. A.—The Sunday evening meetings of the Technology Y. M. C. A. have been discontinued for the season. A30

Seniors may, by application at 16 Rogers, receive any papers written by them and now in the charge of the English Department. A10

The annual Civil Engineering Society dinner will be held at the American House Thursday evening, May 6, 1909. Prof. Spofford and others are to speak. Tickets may be obtained from Faulkner 1909, Henderson 1909, Fitzwater 1910, Arkell 1910, and Davis 1911. Price to members \$1.10; to others \$1.50. No tickets will be sold after 4 P. M. Tuesday. M6

Next Friday at 6:15 the New York State Club will meet in the Union for a dinner and its annual election of officers. Notices have been sent by the secretary to all students registered from New York state, and the officers hope that a large proportion of the 93 men on the list will be able to attend. The charge for the dinner will be 50 cents.

CATHOLICS!—The Catholic Club's banquet takes place at the Quincy House at 7:30 P. M. Tuesday. Mr. McSweeney of the Traveler, will be the principal speaker, his subject being "Demagogism." This will be the last meeting of the club, and every member will please see some member of the banquet committee and obtain admission. Election of officers will take place during the evening. F. M. Heidelberg, A3

TO STUDENTS GOING ABROAD FOR THE SUMMER.—The Department of Modern Languages has addresses of places suitable for students to live in and at the same time study and practice German or French, Spanish or Italian. Any student going abroad can obtain information on this subject, as well as the cost of living and tuition, by applying personally or by letter to Professor Vogel, Lowell Building, Room 24 or 33. Telephone 647-7 Jamaica. 95 Robinwood Ave., Jamaica Plain.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

LOST—Moore's fountain pen. Reward for its return to Pearl, 30 Eng. C.

TECH penants, banners and pillows. Leave note at Cage for E. Q. Adams. M7

TUTORING.—Those wishing to join a class in 3rd year, 1st term Applied Mechanics, leave note at Cage for C. D. M. 1310. A28

MOTOR CYCLE.—If you are going to buy a new one, address Box 602, Prov., R. I., for an interesting proposition. A10

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First Class Work at Popular Prices.

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Two minutes walk from all Tech Buildings. Unexcelled facilities for ladies and the most fastidious bowler to enjoy this fascinating and healthy pastime. Alleys reserved and screened for private parties. Come in and enjoy a little fun and exercise between periods.

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10 PER CENT DISCOUNT TO TECH STUDENTS
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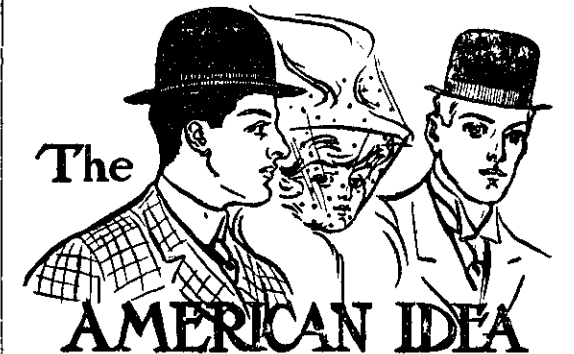
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